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Corrigendum to "A note on some properties of the functions $\varphi(n)$, $\sigma(n)$ and $\theta(n)$" by A. Schinzel and Y. Wang

(these Annales 4 (1958))

The deduction of formula (19) from (18) given on pp. 206-207 is incorrect and should be replaced by the following text:

Hence

$$\prod_{r_j<s\leqslant r_{j-1}}(1-1/p_s) < \pi_j^{9/10(h+1)} < c_3 < 1 \qquad (1 \leqslant j \leqslant t-1)\,,$$

$$\log[1+(h+1)r_n]^2 < c_4 \log p_{r_n} < c_5 \prod_{s=1}^{r_n}(1-1/p_s)^{-1} \prod_{p\mid A}(1-1/p)^{-1}$$

$$\leqslant c_5 \prod_{j=1}^{n} \prod_{r_j<s\leqslant r_{j-1}}(1-1/p_s) \prod_{s=1}^{r}(1-1/p_s)^{-1} \prod_{p\mid A}(1-1/p)^{-1}$$

$$< c_5 \prod_{p\leqslant Z}(1-1/p)^{-1} c_3^n\,.$$

Then by lemma 7

$$\log R \leqslant \log\left\{[1+(h+1)r_0]\prod_{n=1}^{t-1}[1+(h+1)r_n]^2(h+2)^2\right\}$$

$$< c_6 \prod_{p\leqslant Z}(1-1/p)^{-1} \sum_{n=0}^{\infty} c_3^n < c_7 \log Z \ldots$$

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